



OPERATING SERVICES
4375 MESQUITE AVENUE
PALM SPRINGS, CA 92264

TELEPHONE 760-323-8166
FACSIMILE 760-325-5747

February 15, 2001

Lauren Fondahl (W-5-2)
Water Management Division
USEPA, Region 9
75 Hawthorne Street
San Francisco, CA 94105

Dear Ms. Fondahl,

Subject: Submittal of Sewage Sludge Annual Report for 2000

Please find enclosed the Sewage Sludge Annual Report for 2000 for the Palm Springs Wastewater Treatment Plant, operated by USFilter Operating Services. Included is a copy of the annual 503 report to EPA from our hauling contractor, Synagro, Inc.

Testing for heavy metals for the batch of biosolids that were hauled in August of 2000 was done in 1999. Testing for Helminth ova, enteric virus, and Salmonella for this batch was done in May of 2000.

Should you have any questions regarding this report please contact me at (760) 323-8166.

Sincerely,



Gary A. Gray
Operations & Maintenance Manager
USFilter Operating Services

cc: file

ENCL

SEWAGE SLUDGE ANNUAL REPORT

I. GENERAL

1. Name of Generator: USFilter Operating Services -
Palm Springs Wastewater Treatment Plant
2. Location 4375 Mesquite Avenue
Palm Springs, CA 92264
3. Mailing Address (if different) Same
4. Contact Person: Gary A. Gray, Operations & Maintenance Manager
5. Telephone: (760) 323-8166
6. MGD (average): 7.971 m.g.d.
7. Volume of sludge generated per year (dry metric tons): 464.55 d.m.t.

II. LAND APPLIED SLUDGE

1. Volume (amount land applied per 365 day period, dry metric tons): 922.03 d.m.t.
2. Pollutants: ** Testing for heavy metals was done in 1999. These solids were land applied in 2000. **

Pollutant	1	2	3	4	5	6	7	8	9	10	11	12
Arsenic	ND	ND	ND	3				0.51				
Cadmium	3	3	1	3				4.1				
Copper	520	610	290	770				973				
Lead	36	44	21	55				107				
Mercury	16	2	2	3.2				3.99				
Molybdenum	8	10	4	11				21				
Nickel	51	66	33	65				89				
Selenium	8	7	ND	12				10.00				
Zinc	850	1000	410	1200				1490				

3. Pathogens: Description of how Class A or Class B met:

See attached.

4. Vector Attraction Reduction: Description of how VAR achieved:

See attached.

SEWAGE SLUDGE ANNUAL REPORT

Description of:

II. LAND APPLIED SLUDGE

3. Pathogens:

PSRP is achieved via anaerobic digestion with values for the mean cell residence time and temperature between 15 days at 35 degrees C to 60 days at 20 degrees C.

The extended time that these solids are allowed to dry in the high ambient temperatures of this desert environment allows for further pathogen reduction. Testing is done on each batch for Helminth ova, enteric virus, and Salmonella to determine if the solids have achieved Class A. Results of these analyses are enclosed.

4. Vector Attraction Reduction:

VAR is achieved via Option 1 whereby a minimum of 38 percent reduction in volatile solids content is met.

Additionally, conditions of Option 7 are achieved via onsite storage of digested solids, containing no unstabilized solids. Due to climatic conditions of this desert locale with a high number of sunny days and high average ambient temperatures, stored solids routinely achieve a solids content in excess of 75 percent.

SEWAGE SLUDGE ANNUAL REPORT

5. Certification Statements: Include appropriate certification statements in 503.17
(on separate sheet of paper).

Refer to Synagro Annual Report, attached.

6. Nitrogen content of sludge: Refer to Synagro Annual Report, attached.

7. Names and mailing addresses of land appliers:

Refer to Synagro Annual Report, attached.

8. Locations of land application sites:

Refer to Synagro Annual Report, attached.

9. Application rates:

Refer to Synagro Annual Report, attached.

10. Crops grown:

Refer to Synagro Annual Report, attached.

II. SURFACE DISPOSAL

1. Volume placed in surface disposal site, dry metric tons: NA

2. Pollutants (for unlined surface disposal sites): NA

Pollutant	1	2	3	4	5	6	7	8	9	10	11	12
Arsenic												
Chromium												
Nickel												

3. Pathogens: Description of how met (if VAR (b) (11) not met) NA

4. Vector Attraction Reduction: Description of how VAR met: NA

5. Certification Statements: Include appropriate certification statements in 503.27
NA

6. Description of groundwater monitoring program and monitoring results or certification
that there is no groundwater contamination (include on separate sheet).

NA

7. Name and mailing address of surface disposal site operators: NA

8. Location of surface disposal sites: NA

SEWAGE SLUDGE ANNUAL REPORT

III. MUNICIPAL SOLID WASTE LANDFILLS:

1. Volume disposed in landfill (dry metric tons): NA
2. Volume used as daily cover at MSWLF: NA
3. Volume used as final cover: NA
4. Names of landfills: NA

IV. STORAGE:

1. Volume stored on-site (dry metric tons): 398.32 d.m.t.
2. Volume stored off-sites; location of storage: NA
3. Ages of stored sludge: no greater than 8 months
4. Demonstration that sludge stored for more than two years is being stored temporarily. and is not final disposal: NA

V. OTHER:

1. Volume of sludge used/disposal by methods not covered above: NA
2. Description of methods: NA



A Residuals Management Company

February 8, 2001

RECEIVED
FEB 13 2001

Mr. Gary Gray, O&M Manager
US. Filter Operating Services
4375 Mesquite Ave.
Palm Springs, CA 92264

Dear Gary:

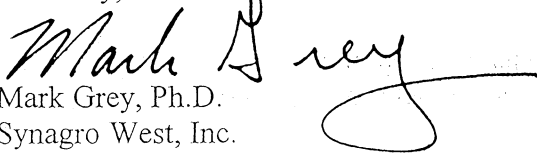
Subject: Class A biosolids Certification Information and 2000 Annual Report Information

With this letter I am forwarding to you certification information necessary for your records, indicating that the biosolids storage pile at your facility we recently tested meets US EPA 40CFR503 requirements for Class A status with respect to pathogens. Please keep in mind that along with the data enclosed, you should maintain and if possible forward to me, the time-in and time-out data for the biosolids. Clearly, the material meets requirements for vector attraction reduction through thermal drying vis a vis a solids concentration greater than 90%. In conversations with Lauren Fondahl from US EPA Region 9, she has suggested to me that keeping drying bed time-in and time-out records is an important function for treatment plant personnel regardless of their attempt to meet Class A or B standards. Laboratory results are also enclosed for 503 metals and agronomic parameters necessary for land application.

In addition, I am enclosing a separate table indicating the amount of biosolids removed from your facility during 2000 and the destination in Riverside County, California.

It has been a pleasure serving you in the past year and I look forward to meeting your biosolids management needs in 2001.

Sincerely,


Mark Grey, Ph.D.
Synagro West, Inc.
Regional Technical Services Director

Enclosures

Palm Springs Biosolids, 2000 Annual Summary

Haul Dates	Destination	County	Tons
8/22-8/31/00	DeVuyst Farms	Riverside	922.03

A & L EASTERN AGRICULTURAL LABORATORIES, INC.

7621 Whitepine Road • Richmond, Virginia 23237 • (804) 743-9401

Fax No. (804) 271-6446

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R240-034

ACCOUNT 46004

REPORT NUMBER

PIMA GRO CALIFORNIA
PIMA GRO SYSTEMS INC
P O BOX 7547
MEDLANDS CA 92375

CITY OF PALM SPRINGS

RICHARD JOHNSON

BIDSOLIDS ANALYSIS REPORT

LAB NUMBER = 44546
SAMPLE ID = CITY OF PALM SPRINGS

DATE SAMPLED
DATE RECEIVED 08/30/99
DATE REPORTED 09/01/99

PARAMETER	RESULT (%)	RESULT (MG/KG)	DETECTION LIMIT (MG/KG)	ANALYST	ANALYSIS DATE	METHOD REFERENCE
SOLIDS(AS IS)	91.64	916400	100	KCS	08/30/99	SM 2540G
NITROGEN(TKN)	2.70	27000	100	KCS	08/31/99	EPA 351.3
PHOSPHORUS	3.07	30700	100	JCM	08/31/99	SW 846-6010B
POTASSIUM	0.16	1600	100	JCM	08/31/99	SW 846-6010B
SULFUR	1.58	15800	100	JCM	08/31/99	SW 846-6010B
CALCIUM	8.08	80800	100	JCM	08/31/99	SW 846-6010B
MAGNESIUM	0.44	4400	100	JCM	08/31/99	SW 846-6010B
SODIUM	0.14	1400	100	JCM	08/31/99	SW 846-6010B
IRON		19500	1	JCM	08/31/99	SW 846-6010B
ALUMINUM		28900	10	JCM	08/31/99	SW 846-6010
MANGANESE		464	1	JCM	08/31/99	SW 846-6010B
COPPER		973	1	JCM	08/31/99	SW 846-6010B
ZINC		1490	1	JCM	08/31/99	SW 846-6010B
AMMONIA-NITROGEN	0.21	2100	100	KCS	08/31/99	EPA 350.2
NO3-NO2 NITROGEN		180	10	KCS	08/31/99	SM 4500-NO3 F
CADMIUM		4.1	1	JCM	08/31/99	SW 846-6010B
CHROMIUM		148	5	JCM	08/31/99	SW 846-6010B
NICKEL		89	5	JCM	08/31/99	SW 846-6010B

ALL VALUES ARE ON A DRY WEIGHT BASIS EXCEPT AS NOTED."

Paul C. H. Chu
PAUL C. H. CHU

C. Norman Jones
C. NORMAN JONES

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TOTAL P. 03

R240-034

ACCOUNT 46004

REPORT NUMBER

PIMA GRO CALIFORNIA
PIMA GRO SYSTEMS INC
P O BOX 7547
REDLANDS CA 92375

CITY OF PALM SPRINGS

RICHARD JOHNSON

BIOSOLIDS ANALYSIS REPORT

LAB NUMBER = 44546
SAMPLE ID = CITY OF PALM SPRINGS

DATE SAMPLED
DATE RECEIVED 08/30/99
DATE REPORTED 09/01/99

PARAMETER	RESULT (%)	RESULT (MG/KG)	DETECTION LIMIT (MG/KG)	ANALYST	ANALYSIS DATE	METHOD REFERENCE
LEAD		107	5	JCM	08/31/99	SW 846-6010B
ARSENIC		0.51	0.4	KM	09/01/99	SW 846-7061A
MERCURY		3.99	0.1	KM	09/01/99	SW 846-7471A
SELENIUM		10.00	0.1	KM	09/01/99	SW 846-7741A
PH (STD. UNITS, AS IS)	6.90			RD	08/31/99	EPA 150.1
ORGANIC NITROGEN	2.49	24900	100	DCH	08/31/99	CALCULATION
MOLYBDENUM		21	5	JCM	08/31/99	SW 846-6010B
CHLORIDE		850	1	AB	08/31/99	SM 4500-CL D
BORON		40	1	JCM	08/31/99	SW 846-6010B
SILVER		40	5	DCH	08/31/99	SW 846-7760
SPEC GRAVITY (AS IS)	1.278			LDR	08/31/99	SM 2710F

ALL VALUES ARE ON A DRY WEIGHT BASIS EXCEPT AS NOTED."

Paul C. H. Chu
PAUL C. H. CHU

Norman Jones
NORMAN JONES

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FEB-15-2001 15:22



BioVir Laboratories, Inc.

885 Stone Road, Unit 6 • Benicia, CA 94510 • (707) 747-5906 • 1-800-GIARDIA • FAX (707) 747-1751 • WEB: www.biovir.com

REPORT OF SAMPLE EVALUATION

REPORT NO.: S000573A
PAGE NO.: 1 of 1
CLIENT ADDRESS: Synagro Technologies, Inc.
PO Box 7027
Corona, CA 92872-7027
CLIENT NO.: SYN001

SAMPLE INFORMATION:

Name of Sampler:	Mark Gray	Sample Date:	05/15/00	
Sample Source:	NA	Sample Time:	10:00	
Sample Location:	NA	Sample Volume:	282.8 g	
Comments:	Samples received past hold time. Okay to run all except Salmonella per Mark Gray.		Client ID #:	PS-1

Sample Received Date: 05/17/00
Sample Received Time: 09:15

ASSAY RESULTS:

1. Helminth Ova Assay: <1 Viable Helminth Ova / 4 grams total solids.
(EPA 600/1-87/014) DATE BEGUN: 05/22/00 TIME: 12:05 ANALYST INITIAL: DHC
2. Enteric Virus Assay: <1 PFU / 4 grams total solids.
(ASTM D 4994-89) DATE BEGUN: 05/24/00 TIME: 10:30 ANALYST INITIAL: GF
3. Total Solids Assay: 91 %
(SM 18th; 2540B) DATE BEGUN: 05/17/00 TIME: 11:15 ANALYST INITIAL: MP

SAMPLE EVALUATION PERFORMANCE CRITERIA: The precise rates of recovery of organisms from environmental samples cannot be determined. BioVir Laboratories has analyzed your sample(s) in accordance with the method described with each analyte above, however, due to inherent limitations of these methods organisms may avoid detection. For additional information regarding the limitations of the method(s) referred to above please call us at 1-800-GIARDIA.
COMPANY IS NOT AN INSURER: BioVir Laboratories is not an insurer or guarantor of the quality and/or purity of water, wastewater, biosolid or other material from which the sample was taken. BioVir offers no express or implied warranties whatsoever concerning the quality or purity of any water, wastewater, biosolid or other material which is ultimately consumed, distributed, applied or otherwise disposed.

6-20-00
ANALYSIS DATE

SIGNATURE/DATE

6-28-00


ROBAC LABORATORIES, INC.
CORONA DIVISION

280 N. SMITH AVENUE • CORONA, CA 92880 • (909) 734-9600 • FAX (909) 734-2803

CERTIFICATE OF ANALYSIS # 9919-00249

Page 1

SYNAGRO
 J. ZIEGENBEIN
 P.O. BOX 7027

Date Reported 7/24/00
 Date Received 7/20/00
 Permit No.
 Invoice No. 004441
 Customer No. S074
 Cust P.O.

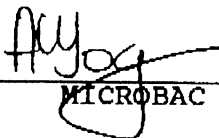
CORONA CA 91719

PH: 909-223-5044 FAX: 909-278-8991

Subject: SYNAGRO - BIO SOLIDS

ANALYSIS	RESULT	UNITS	METHOD	DLR	DATE	TECH
SAMPLE: 1 PALM SPRINGS DRYING BED #1, PS-1, COMP, 07/20/00 @ 1:00PM COLIFORM, FECAL - MPN	<3	MPN/GRAM	SM 9221 B&E	3	7/21/00	JNS
SAMPLE: 2 PALM SPRINGS DRYING BED #2, PS-2, COMP, 07/20/00 @ 1:00PM COLIFORM, FECAL - MPN	<3	MPN/GRAM	SM 9221 B&E	3	7/21/00	JNS
SAMPLE: 3 PALM SPRINGS DRYING BED #3, PS-3, COMP, 07/20/00 @ 1:00PM COLIFORM, FECAL - MPN	93	MPN/GRAM	SM 9221 B&E	3	7/21/00	JNS

RESPECTFULLY SUBMITTED:



MICROBAC LABORATORIES, INCORPORATED

ND = None Detected
 DLR = Detection Levels
 For Reporting

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LA Cty Cert. #1015
 DHS Cert. #2122

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TOTAL P.03